

searching Seq2 library

Comparison of:

(A) Seq1 >Seq1 (540 nucleotides)

(B) Seq2 >Seq2 (540 nucleotides)

using matrix file DNA

Seq ID NO: 1
Seq ID NO: 3

- 540 nt

- 540 nt

99.3% identity in 540 nt overlap; init: 2132, opt: 2132

	10	20	30	40	50	60
Seq1	ATGCCGATCGAGTACAAGCCTGAAATCCAGCACTCCGATTTCAAGGACCTGACCAACCTG					
X					
Seq2	ATGCCGATCAAGTACAAGCCTGAAATCCAGCACTCCGATTTCAAGGACCTGACCAACCTG					
	10	20	30	40	50	60
	70	80	90	100	110	120
Seq1	ATCCAATTCCAGAGCATGGAAGGCAAGATCTGGCTTGGCGAACAAGCGCATGCTGTTGCTG					
					
Seq2	ATCCAATTCCAGAGCATGGAAGGCAAGATCTGGCTTGGCGAACAACGCGCATGCTGTTGCTG					
	70	80	90	100	110	120
	130	140	150	160	170	180
Seq1	CAGTCTTCAGCGATGGCCAGCTTTCGCCGGGAAATGGTCAATACCCTGGGCATCGAACGC					
					
Seq2	CAGTTTTTCAGCGATGGCCAGCTTTCGCCGGGAAATGGTCAATACCCTGGGCATCGAACGC					
	130	140	150	160	170	180
	190	200	210	220	230	240
Seq1	GCCAAGGGCTTGTTCTCGCCCATGGTTACCAGTCCGGCCTGAAGGATGCCGAACTGGCC					
					
Seq2	GCCAAGGGCTTGTTCTCGCCCATGGTTACCAGTCCGGCCTGAAGGATGCCGAACTGGCC					
	190	200	210	220	230	240
	250	260	270	280	290	300
Seq1	AGGAAGCTGAGACCGAATGCCAGCGAAGTCGGCATGTTCTCGCTGGGCCGAGATGCAT					
					
Seq2	AGGAAGCTGAGACCGAATGCCAGCGAAGTCGGCATGTTCTCGCTGGGCCGAGATGCAT					
	250	260	270	280	290	300
	310	320	330	340	350	360
Seq1	TCACTCAAGGGTCTGGTCAAGGTCCGCCCCACCGAGCTCGATATCGACAAGGAATACGGG					
					
Seq2	TCACTCAAGGGTCTGGTCAAGGTCCGCCCCACCGGCTCGATATCGACAAGGAATACGGG					
	310	320	330	340	350	360
	370	380	390	400	410	420
Seq1	CGCTTCTATGCCGAGATGGAGTGGATCGACTGGTTCGAGGTGGAAATCTGCCAGACCGAC					
					
Seq2	CGCTTCTATGCCGAGATGGAGTGGATCGACTGGTTCGAGGTGGAAATCTGCCAGACCGAC					
	370	380	390	400	410	420
	430	440	450	460	470	480
Seq1	CTGGGGCAGATGCAAGACCCGGTGTGCTGGACTGTGCTCGGCTACGCCTGCGCCTATTCC					
					
Seq2	CTGGGGCAGATGCAAGACCCGGTGTGCTGGACTGTGCTCGGCTACGCCTGCGCCTATTCC					
	430	440	450	460	470	480
	490	500	510	520	530	540
Seq1	TCGGCGTTTCATGGGCCGGGAAATCATCTTCAAGGAAGTCAGCTGCCGCGGCTGCGGCGGC					
					
Seq2	TCGGCGTTTCATGGGCCGGGAAATCATCTTCAAGGAAGTCAGCTGCCGCGGCTGCGGCGGC					
	490	500	510	520	530	540

54.5% identity in 55 nt overlap; init: 40, opt: 45

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          490      500      510      520      530
Seq1  GGC GTT CAT GGG CCG GGA AAT CAT CTT CAAG GAAG TCAG CTG CCG CGG CTG CGG C
      :::  : :  X ::::: :X  : :  :  : : :  : : : :  : : :
Seq2  GGC CAG CTT TCG CCG GGA AAT GGT CAAT ACC CTG GGC ATC GAAC GCG CCA AGG GC
      140      150      160      170      180
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52.7% identity in 110 nt overlap; init: 40, opt: 49

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          90      100      110      120      130
Seq1  AGG CAAG ATC TGG CTT GGC GAAC AG CGC -ATG CTG TTG CTG CAG TCT TCAG CGAT GGCCA
      : : : : : : : : : : : : : : : : : : : : : : : : : : :
Seq2  ATG CAAG ACC CGG TGT GCT GGA CTG TCG GCT ACG CCT GC --GCCT ATTC CTG GCGT
      430      440      450      460      470      480

      140      150      160      170      180
Seq1  GCT TTC GCC CGG GAA ATG GTCA ATACC CTG GGC ATC GAAC GCG CCA AGG GC
      : :  X ::::: :X  : :  :  : : :  : : : :  : : :
Seq2  TCA TGG GCC CGG GAA ATC ATC TTT CAAG GAAG TCAG CTG CCG CGG CTG CGG C
      490      500      510      520      530
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